

L Number	Hits	Search Text	DB	Time stamp
1	2619	polymer near membrane	USPAT	2002/02/08 12:30
2	892	battery near separator	USPAT	2002/02/08 12:30
3	315016	polyolefin or polyethylene or polypropylene	USPAT	2002/02/08 12:31
4	31566	surface near treatment or surface near treating	USPAT	2002/02/08 12:32
5	6852	surface near hydrophilic or surface near hydrophobic	USPAT	2002/02/08 12:32
6	7225	surface near hydrophilic or surface near hydrophobic	USPAT; US-PGPUB	2002/02/08 12:32
7	1408	(surface near treatment or surface near treating) and (surface near hydrophilic or surface near hydrophobic)	USPAT; US-PGPUB	2002/02/08 12:33
8	897	((surface near treatment or surface near treating) and (surface near hydrophilic or surface near hydrophobic)) and (polyolefin or polyethylene or polypropylene)	USPAT; US-PGPUB	2002/02/08 12:33
10	1453	(polymer near membrane) and (polyolefin or polyethylene or polypropylene)	USPAT; US-PGPUB	2002/02/08 12:33
9	15	((surface near treatment or surface near treating) and (surface near hydrophilic or surface near hydrophobic)) and (polyolefin or polyethylene or polypropylene) and (polymer near membrane)	USPAT; US-PGPUB	2002/02/08 12:57
11	8	("3231530") or ("3853601") or ("3951815") or ("4039440") or ("4340482") or ("4346142") or ("5085775") or ("5294346").PN.	USPAT	2002/02/08 13:08
12	505015	ion particles	USPAT	2002/02/08 13:12
13	13776	electron same irradiat\$4	USPAT	2002/02/08 13:09
14	23336	electron same radiat\$4	USPAT	2002/02/08 13:09
15	30889	(electron same irradiat\$4) or (electron same radiat\$4)	USPAT	2002/02/08 13:09
16	31566	(ion particles) same radiation irradiate	USPAT	2002/02/08 13:10
17	284938	radiation irradiate irradiation radiating irradiating	USPAT	2002/02/08 13:11
18	26566	(radiation irradiate irradiation radiating irradiating ) same (ion particles)	USPAT	2002/02/08 13:11
19	27991	(radiation irradiate irradiation radiating irradiating ) same electron	USPAT	2002/02/08 13:12
20	47402	((radiation irradiate irradiation radiating irradiating ) same (ion particles)) or ((radiation irradiate irradiation radiating irradiating ) same electron)	USPAT	2002/02/08 13:12
21	4507	ion adj bombardment	USPAT	2002/02/08 13:12
22	124	ionic adj particles	USPAT	2002/02/08 13:12
23	289	ion adj particles	USPAT	2002/02/08 13:13
24	26	(ion adj particles) same (radiation irradiate irradiation radiating irradiating )	USPAT	2002/02/08 13:13
25	7	(ionic adj particles) same (radiation irradiate irradiation radiating irradiating )	USPAT	2002/02/08 13:13
26	33	((ion adj particles) same (radiation irradiate irradiation radiating irradiating )) or ((ionic adj particles) same (radiation irradiate irradiation radiating irradiating ))	USPAT	2002/02/08 13:13
27	0	((ion adj particles) same (radiation irradiate irradiation radiating irradiating )) or ((ionic adj particles) same (radiation irradiate irradiation radiating irradiating )) and (polymer near membrane)	USPAT	2002/02/08 13:13
28	0	((ion adj particles) same (radiation irradiate irradiation radiating irradiating )) or ((ionic adj particles) same (radiation irradiate irradiation radiating irradiating )) and (battery near separator)	USPAT	2002/02/08 13:13

29	10	((ion adj particles) same (radiation irradiate irradiation radiating irradiating )) or ((ionic adj particles) same (radiation irradiate irradiation radiating irradiating )) and (polyolefin or polyethylene or polypropylene)	USPAT	2002/02/08 13:17
30	320	522/157,158,159,161.ccls.	USPAT	2002/02/08 13:18
31	423	522/109,110,11,112.ccls.	USPAT	2002/02/08 13:18
32	0	522/157,158,159,161.ccls. and (ion adj bombardment)	USPAT	2002/02/08 13:18
33	0	522/157,158,159,161.ccls. and (ionic adj particles)	USPAT	2002/02/08 13:19
34	1	522/157,158,159,161.ccls. and (ion adj particles)	USPAT	2002/02/08 13:19
35	132	522/157,158,159,161.ccls. and ((electron same irradiat\$4) or (electron same radiat\$4))	USPAT	2002/02/08 13:21
36	3	(522/157,158,159,161.ccls. and ((electron same irradiat\$4) or (electron same radiat\$4))) and (polymer near membrane)	USPAT	2002/02/08 13:21
37	163	522/109,110,11,112.ccls. and ((electron same irradiat\$4) or (electron same radiat\$4))	USPAT	2002/02/08 13:21
38	0	(522/109,110,11,112.ccls. and ((electron same irradiat\$4) or (electron same radiat\$4))) and (polymer near membrane)	USPAT	2002/02/08 13:21
39	3	(522/109,110,11,112.ccls. and ((electron same irradiat\$4) or (electron same radiat\$4))) and (battery near separator)	USPAT	2002/02/08 13:23
40	3	((522/109,110,11,112.ccls. and ((electron same irradiat\$4) or (electron same radiat\$4))) and (battery near separator)) not ((522/157,158,159,161.ccls. and ((electron same irradiat\$4) or (electron same radiat\$4))) and (polymer near membrane))	USPAT	2002/02/08 13:24
41	55	(522/109,110,11,112.ccls. and ((electron same irradiat\$4) or (electron same radiat\$4))) and vacuum	USPAT	2002/02/08 13:25
42	1	((522/109,110,11,112.ccls. and ((electron same irradiat\$4) or (electron same radiat\$4))) and vacuum) and ((surface near treatment or surface near treating) and (surface near hydrophilic or surface near hydrophobic))	USPAT	2002/02/08 13:25
43	0	522/109,110,11,112.ccls. and (ion adj bombardment)	USPAT	2002/02/08 13:25
44	0	522/109,110,11,112.ccls. and (ionic adj particles)	USPAT	2002/02/08 13:26
45	97	522/157,158,159,161.ccls. and vacuum	USPAT	2002/02/08 13:26
46	1	(522/157,158,159,161.ccls. and vacuum) and ((surface near treatment or surface near treating) and (surface near hydrophilic or surface near hydrophobic))	USPAT	2002/02/08 13:26
47	77	(522/157,158,159,161.ccls. and vacuum) and (polyolefin or polyethylene or polypropylene)	USPAT	2002/02/08 13:27
48	1	((522/157,158,159,161.ccls. and vacuum) and (polyolefin or polyethylene or polypropylene)) and (polymer near membrane)	USPAT	2002/02/08 13:27
49	63	((522/157,158,159,161.ccls. and vacuum) and (polyolefin or polyethylene or polypropylene)) and surface	USPAT	2002/02/08 13:36
50	6	((522/157,158,159,161.ccls. and vacuum) and (polyolefin or polyethylene or polypropylene)) and hydrophilic	USPAT	2002/02/08 13:37
51	21211	polymer and membrane	EPO; JPO; DERWENT	2002/02/08 13:37
52	17899	battery and separator	EPO; JPO; DERWENT	2002/02/08 13:37

53	317557	polyolefin or polyethylene or polypropylene	EPO; JPO; DERWENT	2002/02/08 13:37
54	217	"ion particles"	EPO; JPO; DERWENT	2002/02/08 13:37
55	39	"ionic particles"	EPO; JPO; DERWENT	2002/02/08 13:37
56	241299	electron	EPO; JPO; DERWENT	2002/02/08 13:37
57	377541	irradiation radiation irradiate	EPO; JPO; DERWENT	2002/02/08 13:38
58	2272	((polymer and membrane) and (polyolefin or polyethylene or polypropylene)) and (polyolefin or polyethylene or polypropylene)	EPO; JPO; DERWENT	2002/02/08 13:39
59	0	((polymer and membrane) and (polyolefin or polyethylene or polypropylene)) and "ion particles"	USPAT	2002/02/08 13:39
60	0	((polymer and membrane) and (polyolefin or polyethylene or polypropylene)) and electron	USPAT	2002/02/08 13:39
61	0	((polymer and membrane) and (polyolefin or polyethylene or polypropylene)) and (irradiation radiation irradiate)	USPAT	2002/02/08 13:39
62	0	(battery and separator) and (polyolefin or polyethylene or polypropylene)	USPAT	2002/02/08 13:39
63	0	(battery and separator) and "ion particles"	USPAT	2002/02/08 13:39
64	0	(battery and separator) and "ionic particles"	USPAT	2002/02/08 13:39
65	0	(battery and separator) and electron	USPAT	2002/02/08 13:39
66	0	(battery and separator) and (irradiation radiation irradiate)	USPAT	2002/02/08 13:40
67	0	(polymer and membrane) and (irradiation radiation irradiate)	USPAT	2002/02/08 13:40
68	0	(polymer and membrane) and electron	USPAT	2002/02/08 13:40
69	0	(polymer and membrane) and "ionic particles"	USPAT	2002/02/08 13:40
70	0	(polymer and membrane) and "ion particles"	USPAT	2002/02/08 13:40
71	0	(polyolefin or polyethylene or polypropylene) and "ion particles"	USPAT	2002/02/08 13:40
72	0	(polyolefin or polyethylene or polypropylene) and "ionic particles"	USPAT	2002/02/08 13:40
73	0	(polyolefin or polyethylene or polypropylene) and electron	USPAT	2002/02/08 13:40
74	0	(polyolefin or polyethylene or polypropylene) and (irradiation radiation irradiate)	USPAT	2002/02/08 13:40
75	0	((polymer and membrane) and (polyolefin or polyethylene or polypropylene)) and (battery and separator)	USPAT	2002/02/08 13:41
76	231700	surface and modification	EPO; JPO; DERWENT	2002/02/08 13:42
77	9358	surface and modification	EPO; JPO; DERWENT	2002/02/08 13:42
78	523	((surface and modification) and (polyolefin or polyethylene or polypropylene)) and (polyolefin or polyethylene or polypropylene)	EPO; JPO; DERWENT	2002/02/08 13:42
79	56	((surface and modification) and (polyolefin or polyethylene or polypropylene)) and (irradiation radiation irradiate)	EPO; JPO; DERWENT	2002/02/08 13:43
80	28	((surface and modification) and (polyolefin or polyethylene or polypropylene)) and irradiating	EPO; JPO; DERWENT	2002/02/08 13:43
81	64	((surface and modification) and (polyolefin or polyethylene or polypropylene)) and (irradiation radiation irradiate) ((surface and modification) and (polyolefin or polyethylene or polypropylene)) and irradiating	EPO; JPO; DERWENT	2002/02/08 13:43

82	16	((((surface and modification) and (polyolefin or polyethylene or polypropylene)) and (irradiation radiation irradiate)) ((surface and modification) and (polyolefin or polyethylene or polypropylene)) and irradiating)) and electron	EPO; JPO; DERWENT	2002/02/08 13:47
83	0	((((surface and modification) and (polyolefin or polyethylene or polypropylene)) and (irradiation radiation irradiate)) ((surface and modification) and (polyolefin or polyethylene or polypropylene)) and irradiating)) and "ionic particles"	EPO; JPO; DERWENT	2002/02/08 13:47
84	1	((((surface and modification) and (polyolefin or polyethylene or polypropylene)) and (irradiation radiation irradiate)) ((surface and modification) and (polyolefin or polyethylene or polypropylene)) and irradiating)) and "ion particles"	EPO; JPO; DERWENT	2002/02/08 13:47